

Product-Information

TRIVAC D 16 B

Two-Stage Rotary Vane Vacuum Pump

Cat. No.:



Product-Description

The TRIVAC B is the logical step ahead within the well-proven TRIVAC concept. Here the performance and the characteristics of the pumps have been adapted without compromise to market requirements. The TRIVAC-B pumps with their comprehensive range of accessories have proven themselves time and again as rugged pumps in many and varied applications.

The inner body is assembled from individual parts without sealing components. The parts are pinned in order to ensure easy disassembly and reassembly of the parts.

All pumps from the D 4 B to the D 25 B model are equipped either with single-phase AC or three-phase AC motors. Moreover, all pumps of the B series are available also without the motor.

In the TRIVAC B, the pump unit and the motor are linked by an elastic coupling.

The TRIVAC B range is a modular system which divides into three groups:

TRIVAC 4/8 Series

TRIVAC 16/25 Series

TRIVAC 40/65 Series

Advantages to the User

- All basic models (single-phase and three-phase motor) are certified in accordance with 94/9/EG (ATEX) (category 3 inside)

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- High water vapor tolerance
- Continuous operation even at 1000 mbar
- Built-in oil pump; pressure-lubricated sliding bearings
- All controls as well as the oil sight glass are located on the front face
- Either vertical or horizontal intake and exhaust ports
- Exchangeable inner body
- Anti-suckback valve controlled via the oil pressure
- Free of yellow metals
- Service-friendly
- Ideal as backing pump for medium and high vacuum applications, because of low oil backstreaming
- Highly leaktight (He E3 capable)

Supplied Equipment

Small flanges, centering and clamping rings. The intake flange contains a dirt trap.

A carrying handle is standard for all pumps up to the D 25 B. TRIVAC B pumps with single phase motors are delivered with main cord and main plug, ready for immediate operation.

Standard TRIVAC B pumps come with a filling of N 62 special oil (HE-200 in the U.S.), others with special oil fillings can be specified.

Custom Models

- Brake fluid
- Oils for refrigerating machines, e.g. ester oils for refrigerant circuits with R 134 a
- Pressure burst resistant (for the new refrigerants propane and isobutane)
- He E3-tight (for cryostats)
- Special motors

ALL PUMPS ARE SUBJECTED TO A VACUUM TEST BEFORE DELIVERY!

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Description	Unit	Value
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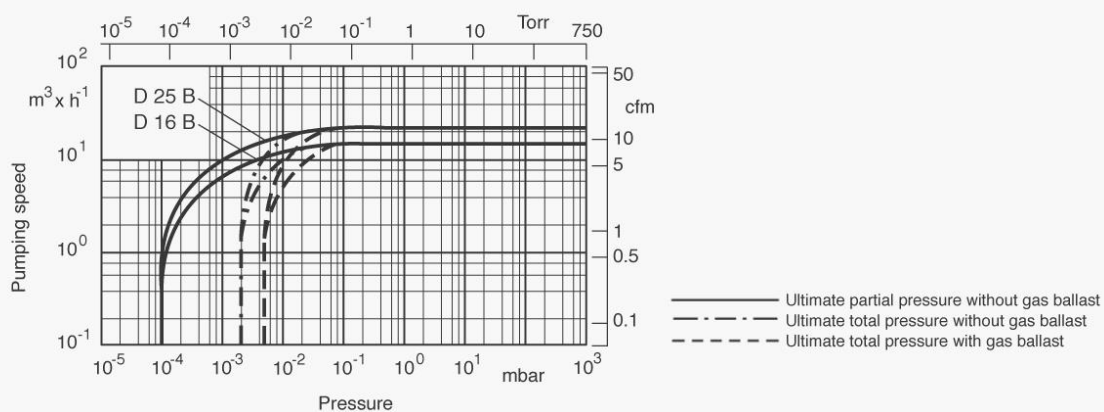
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Pumping Speed

Pumping speed characteristics at 50 Hz



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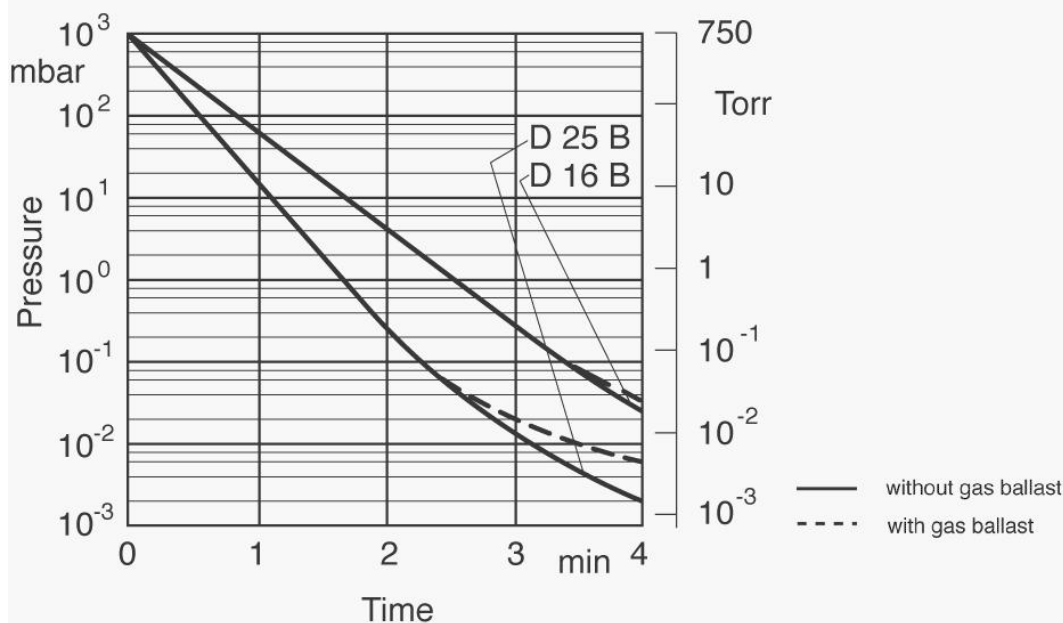
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Pump-down time curve

Pump-down characteristics of a 100 l vessel at 50 Hz



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Dimensions

Type	DN		a	b	b ₁	b ₂	c	e	e ₁	h	h ₁	h ₂	h ₃	h ₄	l	l ₁	m	n	o
D 16 B (Part No. 113 25, 113 29)	25 KF	mm	82	190	177	150	135	–	266	298	250	226	263	271	–	566	280	140	132
		in.	3.23	7.48	6.97	5.91	5.32	–	10.47	11.73	9.84	8.90	10.35	10.67	–	22.28	11.02	5.51	5.20
D 16 B (Part No. 112 65)	25 KF	mm	82	190	175	150	135	–	170	298	250	226	263	274	–	507	280	140	132
		in.	3.23	7.48	6.89	5.91	5.32	–	6.69	11.73	9.84	8.90	10.35	10.79	–	19.96	11.02	5.51	5.20
D 16 B (Part No. 112 66, 113 33)	25 KF	mm	82	190	175	150	135	89	–	298	250	226	263	236	490	–	280	140	132
		in.	3.23	7.48	6.89	5.91	5.32	3.50	–	11.73	9.84	8.90	10.35	9.29	19.29	–	11.02	5.51	5.20
D 16 B (Part No. 113 27)	25 KF	mm	82	190	175	150	135	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.
		in.	3.23	7.48	6.89	5.91	5.32	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.
D 16 B (Part No. 113 34)	25 KF	mm	82	190	175	150	135	111	–	298	250	226	263	262	507	–	280	140	132
		in.	3.23	7.48	6.89	5.91	5.32	4.37	–	11.73	9.84	8.90	10.35	10.32	19.96	–	11.02	5.51	5.20
D 25 B (Part No. 113 36, 113 39, 112 75)	25 KF	mm	142	190	177	150	135	–	266	298	250	226	263	271	–	626	280	140	132
		in.	5.59	7.48	6.97	5.91	5.32	–	10.47	11.73	9.84	8.90	10.35	10.67	–	24.65	11.02	5.51	5.20
D 25 B (Part No. 112 76)	25 KF	mm	142	190	177	150	135	111	–	298	250	226	263	262	566	–	280	140	132
		in.	5.59	7.48	6.97	5.91	5.32	4.37	–	11.73	9.84	8.90	10.35	10.32	22.28	–	11.02	5.51	5.20
D 25 B (Part No. 112 37)	25 KF	mm	142	190	177	150	135	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.
		in.	5.59	7.48	6.97	5.91	5.32	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.	u. r.

u. r. = upon request

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Technical Drawing

